

# energized

Volume 5

THE MONTHLY NEWSLETTER FOR ENERGY MANAGERS AND PUBLIC AFFAIRS OFFICERS

Issue 10

## Message To Energy Managers:

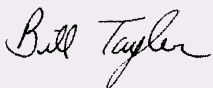
Congratulations to this year's Secretary of the Navy Energy Award Winners! Their leadership and hard work are generating a brighter future for us all by reducing energy consumption and associated costs, and creating a cleaner environment.

Kudos also to the Navy and Marine Corps winners of the U.S. Department of Energy's Federal Energy Management Program. They demonstrate DON's leadership in energy management in the Federal government and serve as models for other agencies to follow.

It's times like these that make me extremely proud to head up the Department of the Navy's Energy Program. With each passing year, the challenges grow. Fortunately, DON's capabilities grow as well, demonstrating our commitment and ability to meet these growing challenges.

Thanks to the incredible achievements of these Navy and Marine Corps winners, and other activities like them, the Department of the Navy has reduced shore energy consumption nearly 26% compared to the baseline.

Sincerely,



William F. Tayler  
Navy Shore Energy  
Program Manager

## SECNAV BESTOWS AWARDS ON EIGHT DON COMMANDS FOR OUTSTANDING ENERGY EFFICIENCY ACHIEVEMENTS

Navy and Marine Corps shore facilities slashed energy use 23% in FY 1999 compared to the 1985 baseline, exceeding the interim reduction goal of 21% for FY99. To date, the Navy and Marine Corps have saved more than \$500 million in inflation adjusted energy costs since 1985. The ship and aircraft fleets, through technological advances and improved operational procedures, are avoiding an estimated \$110 million annually in fuel costs.

\$255,000 and will fly the SECNAV energy flag for one year. Individual activity awards range from \$20,000 to \$45,000.

The Honorable Robert B. Pirie, Jr., Under Secretary of the Navy, presented the awards. "These awards reflect enormous credit on you all as leaders...and enormous credit on the hardworking Sailors and Marines and civilians who back you up," said Pirie. "You persuaded them to come along with the program. That's a terrific accomplishment."

"The efforts you make really epitomize the contributions made by many hardworking Energy Managers throughout the Department of Defense," added the keynote speaker, Mr. Randall Yim, Deputy Under Secretary of Defense for Installations. "Without your dedication and motivation," he continued, "our energy



Each year, the Secretary of the Navy recognizes those Navy and Marine Corps shore facilities, ships and squadrons achieving exemplary energy and cost savings with a Secretary of the Navy (SECNAV) Energy Award. This year's winners were honored 5 October 2000 at the U.S. Navy Memorial & Naval Heritage Center in Washington, DC. The winners received monetary awards totaling

policies would be hollow initiatives with very little meaning." Yim quoted from the "great philosopher Shaquille O'Neal" who said, "Excellence is not a singular act, but a habit. You are what you repeatedly do." Yim concluded, "I congratulate you for DOING such a great job."

*Continued on page 2*

**DON Energy Awareness Website:** Access the tools on the Navy Energy website for ideas, planning tips, and tools. Set your browser to <http://energy.navy.mil> and scroll down the left-hand column to the Awareness pick.

Lieutenant Commander John Korka with the Chief of Naval Operations Energy Office, Emcee for the event, provided an overview of the Department of Navy (DON) Energy Program and its accomplishments toward meeting DON energy goals. The ceremony included a presentation with colorful photos highlighting the winners' achievements projected onto the large screen in the Navy Memorial's theatre. A luncheon followed the presentation.

The awards were presented in the following order—Navy small shore activity, Marine Corps small shore activity, Navy large shore activity, Marine Corps large shore activity, Industrial, Aviation, Small ship and Large ship.

### NAVY SMALL SHORE ACTIVITY

**Atlantic Undersea Test and Evaluation Center (AUTEC), Andros Island, The Bahamas**, reduced energy consumption 13.5%, saving \$177,596 and 32,267 MBTU in FY99. AUTEC implemented a "Green Island" Program to conserve natural resources and reduce all forms of pollution. This included installing solar water heaters on a new barracks equipped with energy-efficient lighting and appliances, and expanding its fleet of electric vehicles.

### MARINE CORPS SMALL SHORE ACTIVITY

**Marine Corps Logistics Base (MCLB), Barstow, CA**, teamed with Southern California Edison's ENVEST to develop and implement energy conservation projects. Barstow implemented \$4.2 million in projects over the past three years, including lighting retrofits, satellite boilers, energy-efficient motors, and an energy management control system in high energy use buildings, producing a savings of \$650,000 in FY99.

### NAVY LARGE SHORE ACTIVITY

**Navy Pensacola Region, FL**, implemented more than \$5 million in claimant-funded special projects in FY 1999. Projects included replacing a 100-ton chiller system, heating boilers, air handlers, and a cooling tower; installing a 100-HP boiler, window film, and a variable air volume (VAV) system; and renovating a Bachelor Officers Quarters. Centrally funded facility energy improvements costing more than \$4 million are projected to save \$1.3 million annually.

### MARINE CORPS LARGE SHORE ACTIVITY

**Marine Corps Recruit Depot (MCRD)/Eastern Recruiting Region Parris Island, SC**, continued to expand the Decision Support of Operation & Maintenance II (DSOM II), an innovative system that not only monitors but also improves the operation and maintenance of the Central Power Plant. The DSOM II system cost \$1.825 million and is expected to save \$250,000/year in fuel costs. Solar-powered lights were installed at numerous locations. The

Motor Transportation Department purchased electric vehicles that can be recharged using solar photovoltaic modules.

### INDUSTRIAL

**Norfolk Naval Shipyard, VA**, made dramatic improvements to its heating and cooling systems. A compressed air system improvement, costing \$429,000, is projected to save \$117,000 and 12,200 MBTU annually. Activity-funded projects totaling \$1,243,000 are projected to save nearly \$2 million and 150,000 MBTU annually. Projects included replacing steam traps, existing underground steam lines with direct bury steam lines, 110 window air conditioner units with energy-efficient units, and an existing Pressure Relief valve with a thermostatically controlled Pressure Relief valve.

### AVIATION SQUADRON

**Fleet Logistics Support Squadron FIFTY EIGHT (VR-58), FL**, saved more than one million dollars, or 15% savings in aircraft fuel consumption, in FY99 compared to the FY95 baseline, through the use of efficient operational mission planning; flying aircraft using the most energy-efficient aircraft speed/altitude profiles compatible with mission requirements; and securing the lighting, air conditioning, and electronic equipment when not needed.

### SMALL SHIP

**USS FIFE (DD 991)** saved \$700,000 in avoided fuel consumption in FY99. Heavy emphasis was placed on identifying energy-related material deficiencies during Zone Inspections. The ship improved fuel efficiency by conducting semi-annual hull inspections and cleaning. USS FIFE operated in trail shaft mode whenever possible, leading to a 15% reduction in fuel consumption from split plant mode. An aggressive training program ensured the participation of all personnel in the efficient operation of the ship.

### LARGE SHIP

**USS BONHOMME RICHARD (LHD-6)** avoided consuming 2,245,000 gallons of fuel oil in FY99 by operating a tight and efficient engineering plant, saving \$1.8 million, a 33.3% savings of the allotted fuel burn rate. USS BONHOMME RICHARD performed better than her class average by \$1.1 million, or 23%. While at anchor and periodically underway, USS BONHOMME RICHARD steamed with one boiler in operation, conserving nearly 25% of the fuel typically consumed during these types of evolutions. The Engineering Department implemented a separate workcenter dedicated to valve maintenance. Lighting, air conditioning plants, and standby equipment were secured at the earliest opportunity.

## PENTAGON DISPLAY



Each year DON's Energy Program is visibly displayed in the Pentagon during Energy Awareness Month. This year's display emphasizes how DON is GENERATING A BRIGHTER FUTURE through energy efficiency, renewable energy, sustainable design, and alternative financing.



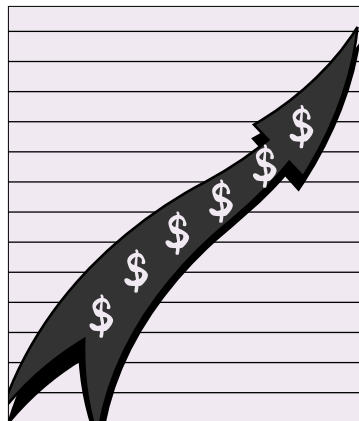
## DOE RECOGNIZES DON ACHIEVERS

Nine Department of the Navy individuals, small groups, activities, and organizations were honored with U.S. Department of Energy's Federal Energy Management Program (FEMP) awards this year:

- Atlantic Test and Evaluation Center (AUTEC)
- Fleet Logistics Support Squadron FIFTY EIGHT (VR-58)
- Marine Corps Logistics Base Barstow's Energy Manager Larry Emmons
- Naval Surface Warfare Center Dahlgren Solar Projects
- Navy Energy Project Development and Execution Team
- Navy Region Pensacola
- San Clemente Island Wind Turbine Team
- TEAM SEMP, Randy Sawyer and Bev Thompson, from Naval Weapons Station Yorktown
- USS BONHOMME RICHARD (LHD 6)

The award ceremony, the winners, and their achievements will be highlighted in the next issue of *energized*.

## NATURAL GAS PRICES ON THE RISE



Natural gas prices are at an all time high. The price for fiscal year (FY) 2000 was \$2.36 per MMBTU. In May, the Office of Management and Budget projected \$2.44 for average natural gas spot prices in FY 2001 and \$2.49 in FY 2002. Since then, however, prices have

gone up, and current estimates suggest that prices may reach as high as \$4.30 in FY 2001 and \$3.26 in FY 2002. Although predicting future prices is an uncertain art, all marketing data seem to show a trend toward rising prices. Redouble your conservation efforts now, and reap tremendous benefits in the future!





## Check it Out

### *This Special Promotion from FEMP*

FEMP is offering a special promotion to all subscribers of its *Buying Energy Efficient Products* binder. That may include you, since all Navy and Marine Corps Energy Managers were placed on the mailing list about this time last year. On a first-come, first-served basis, FEMP is accepting requests from binder holders for a free copy of the second edition of the *Guide to Energy-Efficient Commercial Equipment*, recently updated and published by the American Council for an Energy-Efficient Economy (ACEEE). Simply call DOE's Clearinghouse, at 1-800-363-3732, identify yourself as a subscriber to the binder, and request a copy. The Clearinghouse will verify your name in its records. If you are not yet a subscriber to the binder, please mention that to the information specialist at the Clearinghouse, and they will send you the binder as well as the *Guide*.

The 185-page *Guide* offers detailed descriptions of how best to design and select energy-efficient commercial lighting, HVAC, and motor systems. In addition, ACEEE worked with FEMP to develop lists of the most efficient products, by brand name and model number. These are a valuable complement to the FEMP *Recommendations*. Remember, this is a limited time offer, so get on the phone and request your copy of the *Guide* today!

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## Watts News?

**We want to hear from you.**

*Tell us about the energy initiatives you're working on, the problems you encounter, and the solutions you discover.*

Submit article ideas, comments, or questions to:

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*Be sure to include your name and commercial phone number.*

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NAVY / MARINE CORPS

# ENERGY EFFICIENCY

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